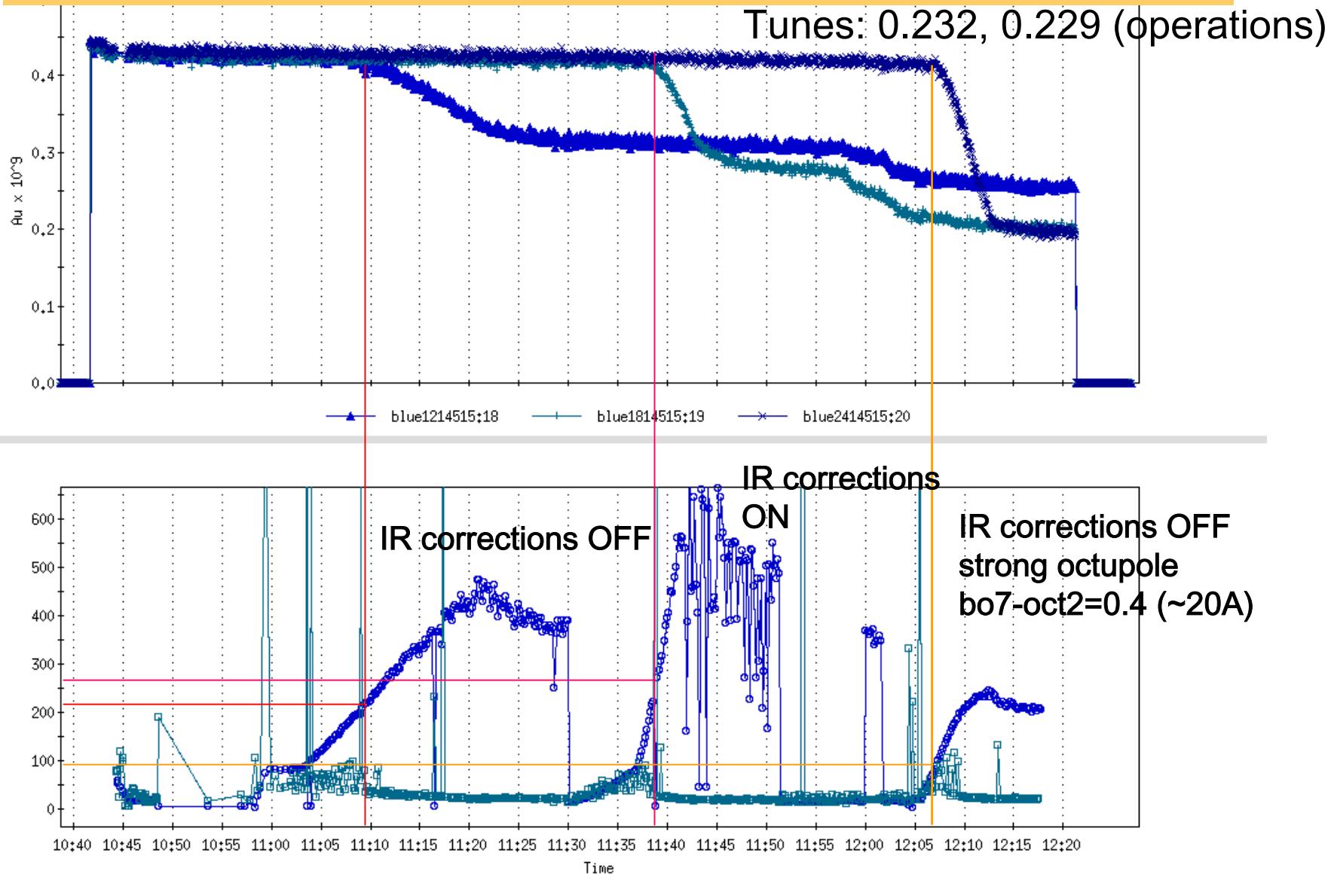
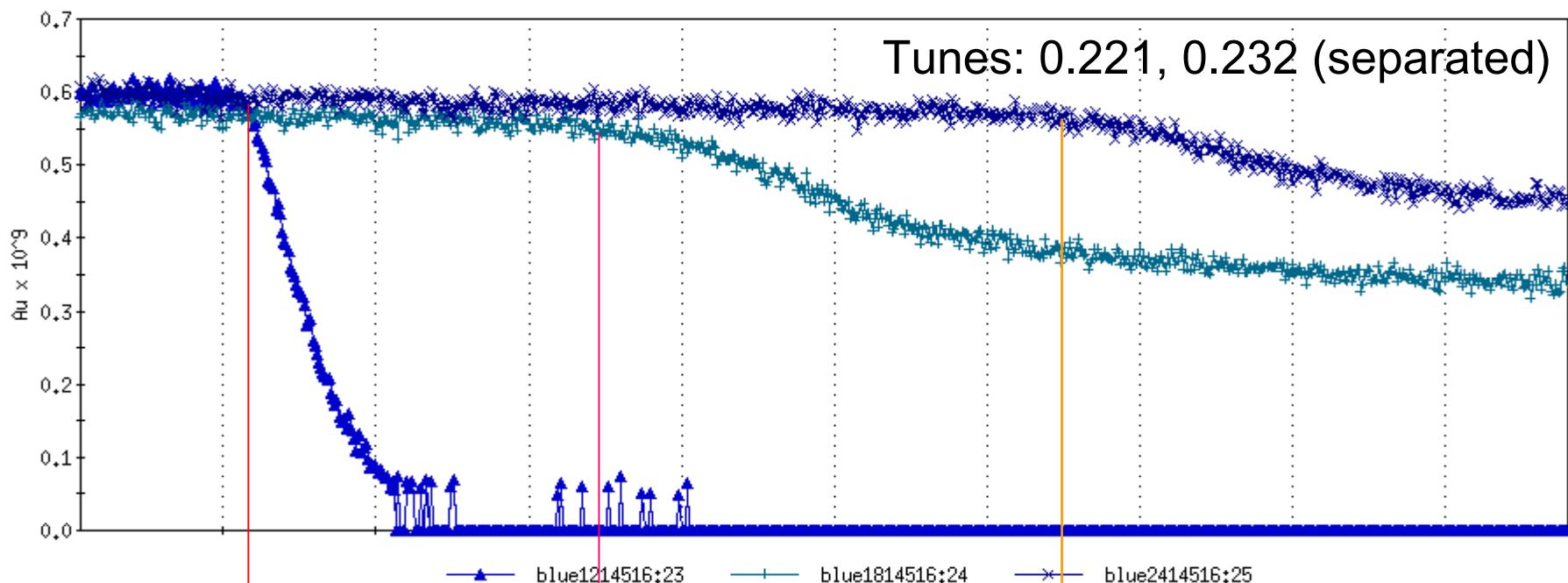


Dynamic aperture – blue (february 11)





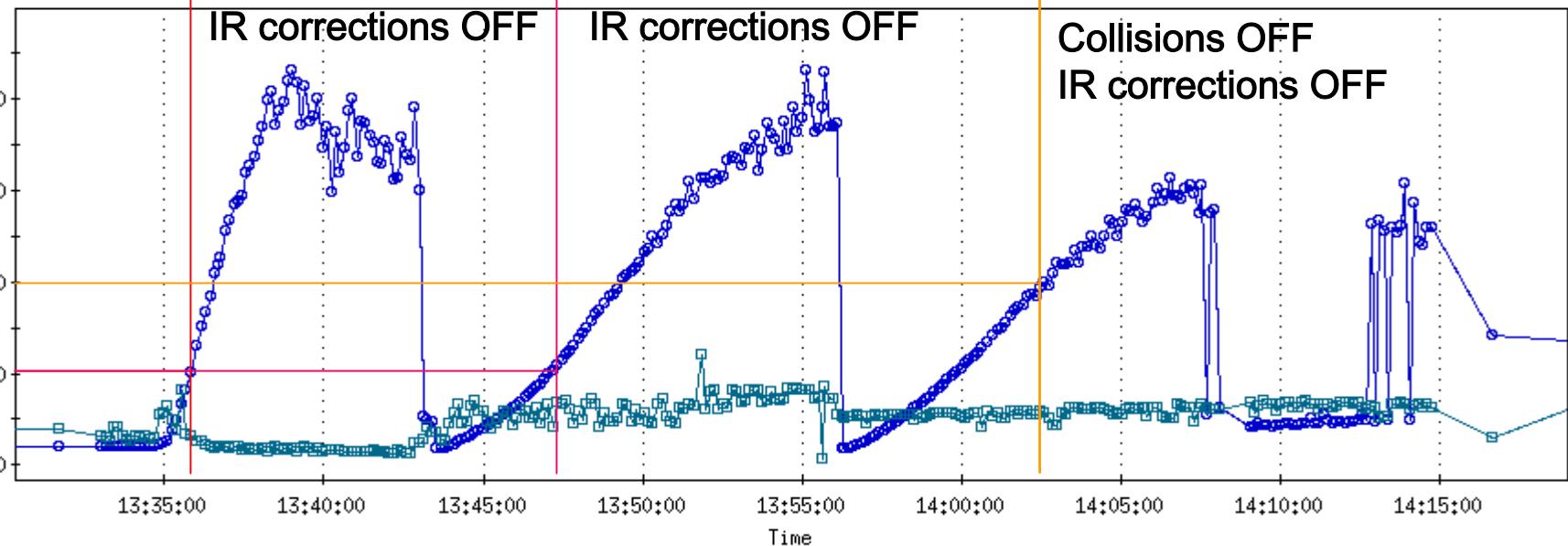
Collisions ON

IR corrections OFF

Collisions ON

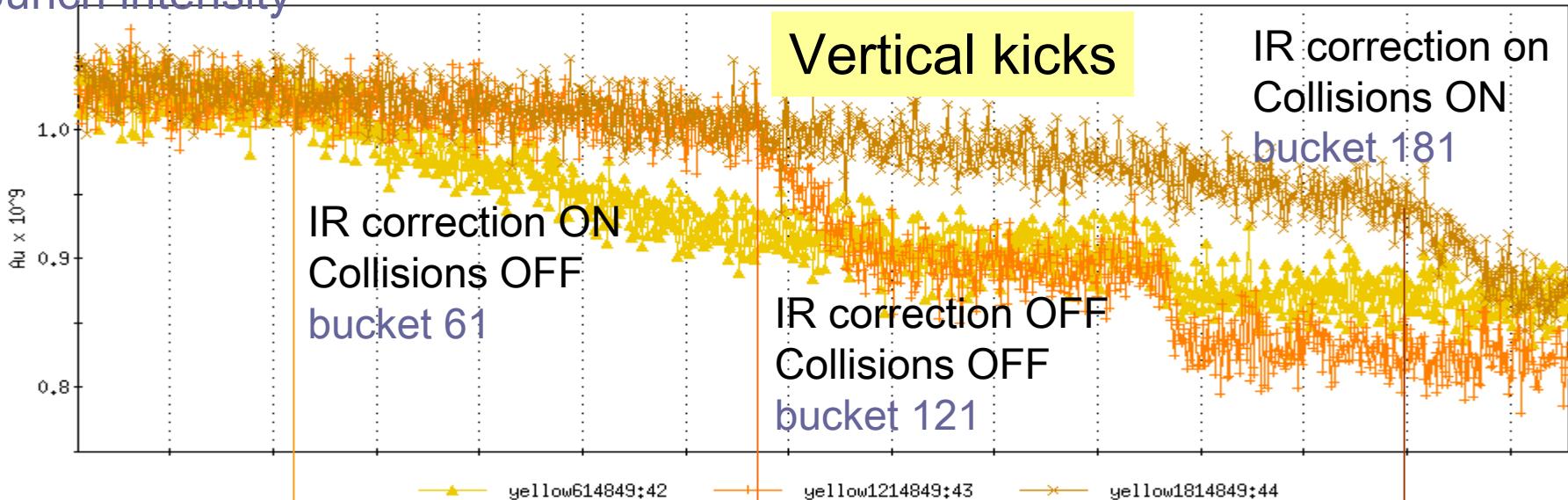
IR corrections OFF

Collisions OFF
IR corrections OFF

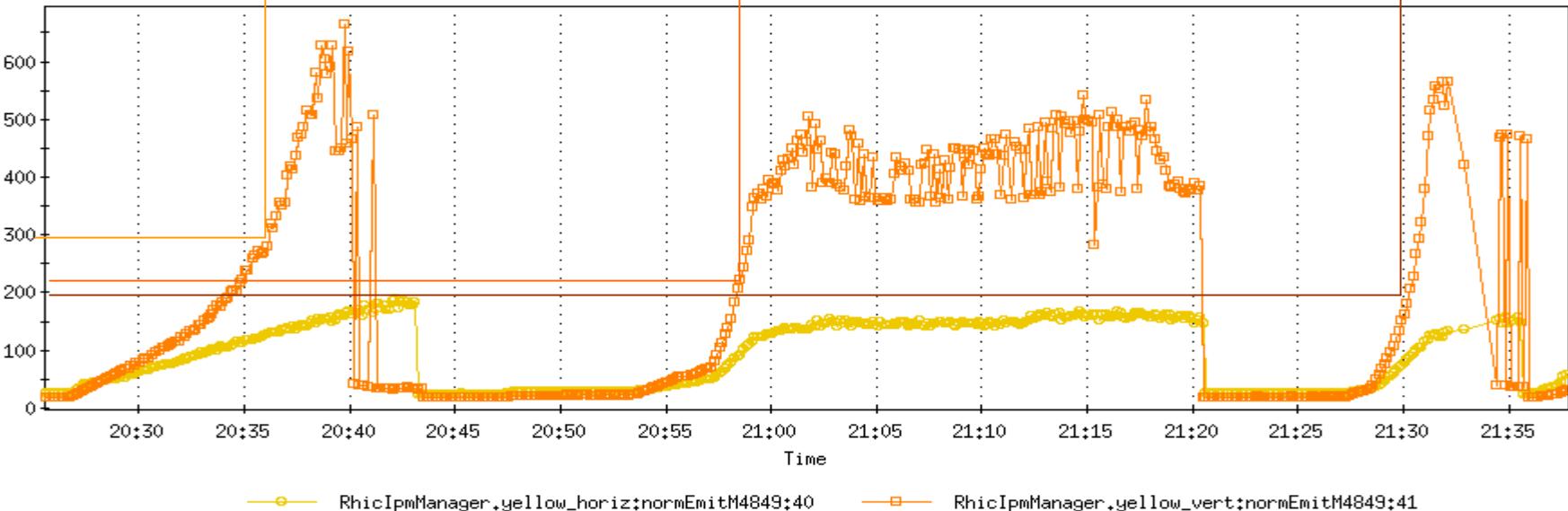


Dynamic aperture – yellow 0.2395, 0.2345

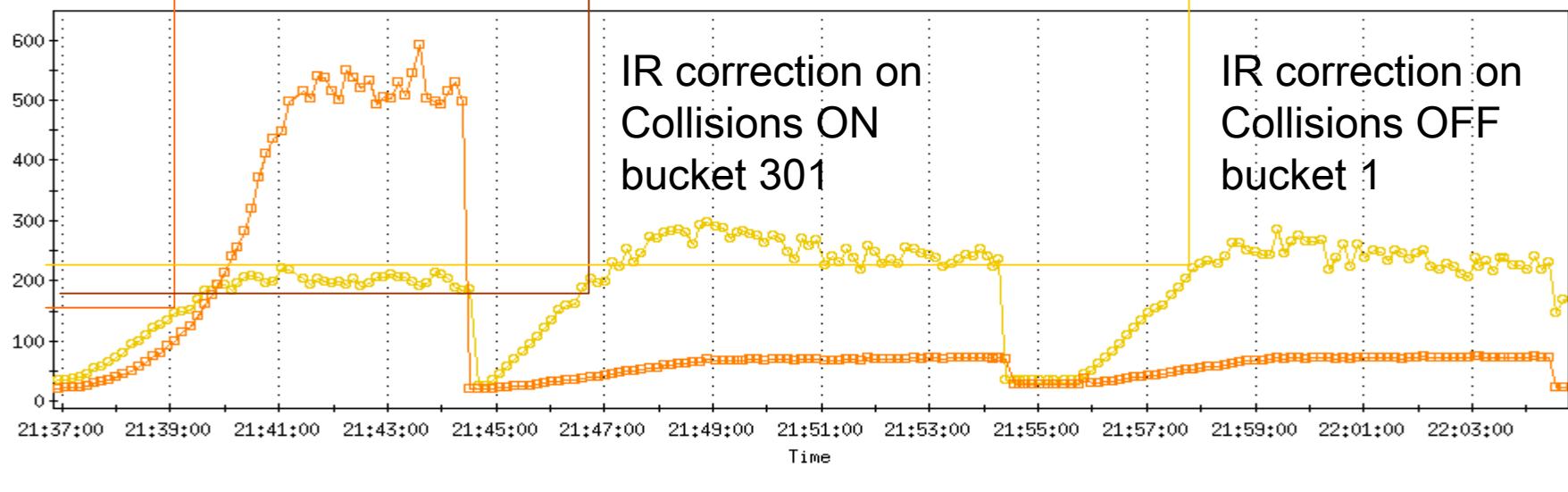
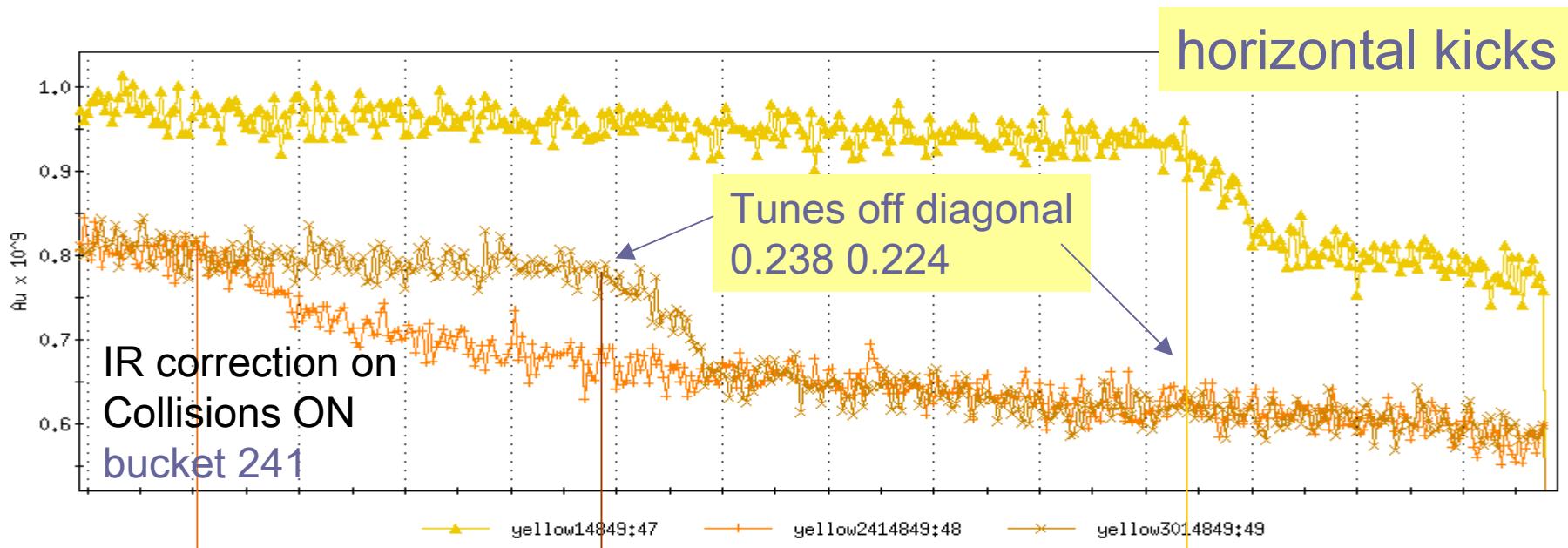
Bunch intensity



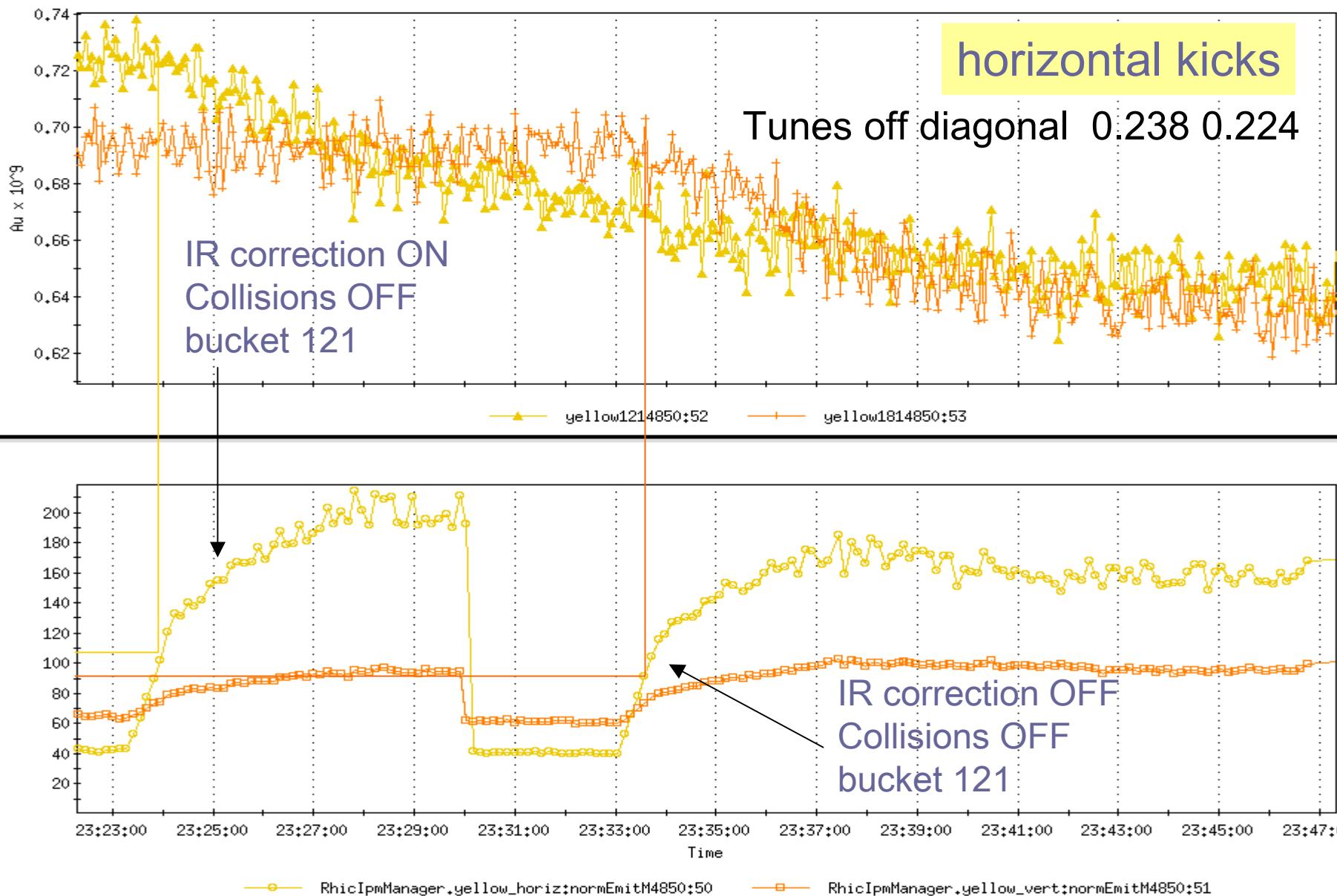
Normalized emittance



Dynamic aperture - yellow



Yellow dynamic aperture



Dynamic aperture - summary

Ring	Tunes	IR corr	Collisions	Kick	emittance
blue	.232 .229	OFF	OFF	vertical	210
		ON	OFF	vertical	270
		OFF bo7oct2 ON	OFF	vertical	95
blue	.221 .232	OFF	ON	vertical	100
		OFF	ON	ver+hor	100
		OFF	ON	vertical	200
yellow	.2395 .2345	ON	OFF	vertical	300
		OFF	OFF	vertical	210
		ON	ON	vertical	190
		ON	ON	horizontal	150
yellow	.238 .224	ON	ON	horizontal	170
		ON	OFF	horizontal	230
yellow	.238 .224 ?	ON	OFF ??	horizontal	95
		OFF	OFF ??	horizontal	110

Dynamic aperture / preliminary

- Vertical aperture > horizontal aperture
- Blue – Yellow consistent
- Dynamic aperture tune dependent (no surprise)
- IR correction help (~30% hor - ~15% vert.)
- Beam-beam limiting factor
- IR correction and/or tune affect how much (see table)

To do:

- model comparisons : IR correction + beam-beam

Nikolay (Monday) → model prediction of tune shifts and dynamic aperture vs. data

Beam-beam?

- Analyze IPM profiles
- Dynamic aperture with PP collision ON/OFF

Beam-beam tune shift vs. X-ing angle

